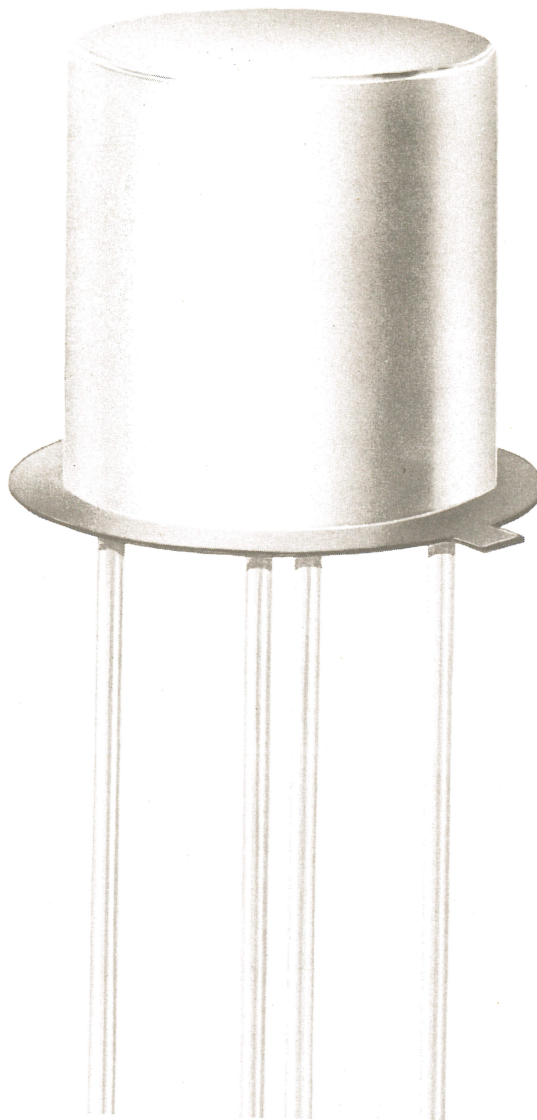


LOW-NOISE COMMUNICATION-TYPE TRANSISTORS

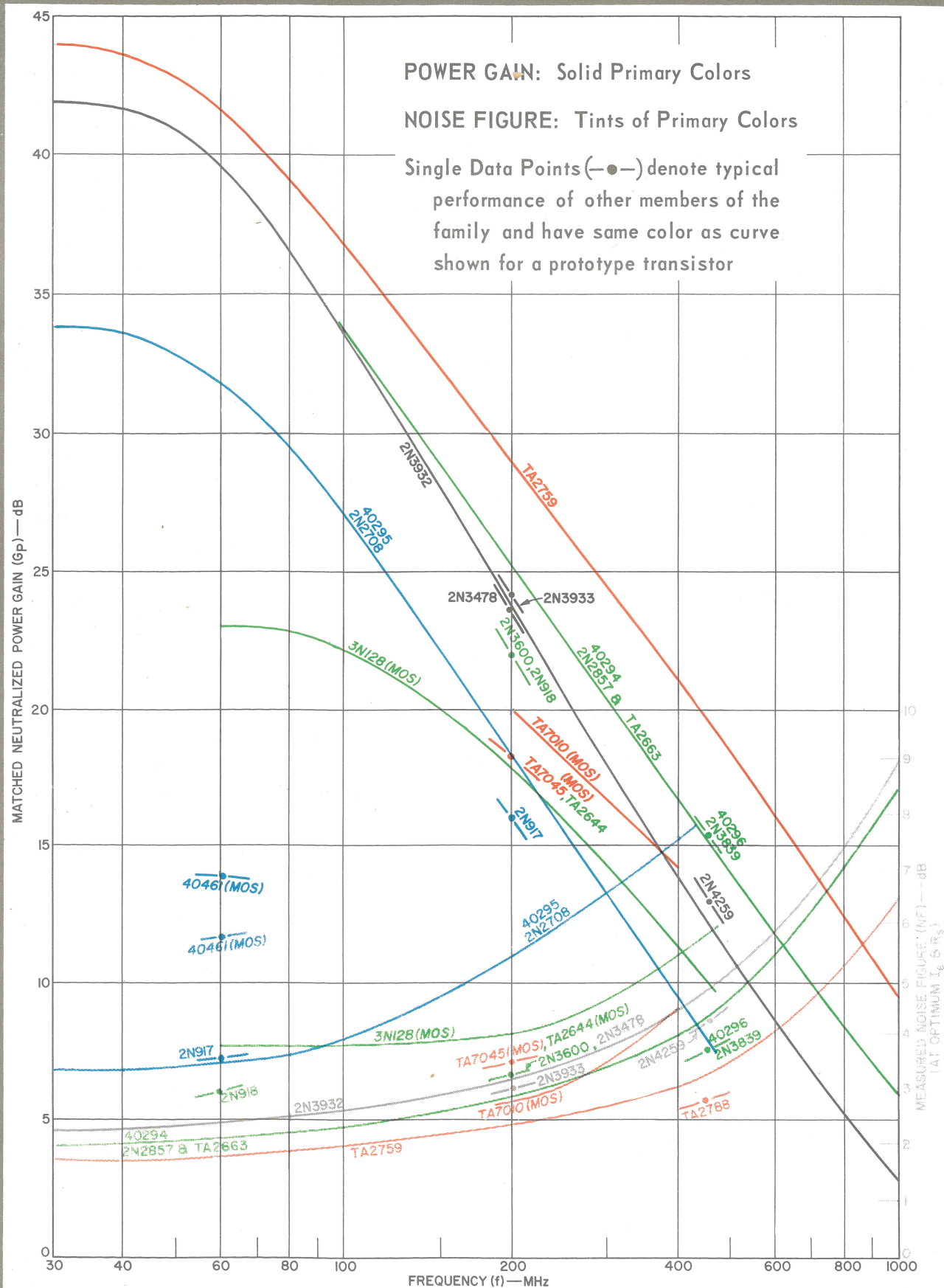


- **AEROSPACE AND HIGH RELIABILITY**
- **INSTRUMENTATION AND CONTROL**
- **MILITARY**
- **MOBILE, FIXED
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Typical Performance Characteristics of RCA Low-Noise Communications-Type Transistors

the frequency range from 30 MHz to 1000 MHz. Each curve is labeled with the type designation of the prototype transistor which will deliver the typical performance indicated by the curve.



CHARACTERISTICS CHART

RCA BIPOLAR TYPES	Max. Measured Noise Figure			Min. Matched Neutralized Power Gain		Min. Gain-Band- width Product f_T MHz	Max. Collector-to-Base Feedback Capacitance C_{cb} pF	Min. Power Output P_o mW	Min. Collector-to-Emitter Breakdown Voltage V_{(BR)CEO} V	Max. Storage Temperature T_{stg} °C	JEDEC Package See actual size photographs below
	NF dB			G_{pe} dB							
	at f = MHz			at f = MHz							
	60	200	450	200	450						
TA2788 ⚡	—	—	3	—	15	1500	0.65	—	15	+200	TO-72
TA2759 ⚡	—	—	3.5	—	15	1500	0.65	—	15	+200	TO-72
2N3839	—	—	3.9	—	12.5	1000	1.0	30	15	+200	TO-72
40296	—	—	3.9	—	12.5	1000	1.0	30	15	+200	TO-72
2N2857	—	—	5	—	12.5	1000	1.0	30	15	+200	TO-72
40294	—	—	5	—	12.5	1000	1.0	30	15	+200	TO-72
TA2663 ⚡	—	—	5	—	12.5	1000	1.0	30	15	+200	4-Lead TO-46
TX 2N2857	—	—	5	—	12.5	1000	1.0	30	15	+200	TO-72
JAN 2N2857	—	—	5	—	12.5	1000	1.0	30	15	+200	TO-72
2N3600	—	4.5*	—	17	—	850	1.0	20	15	+200	TO-72
JAN 2N918	6	—	—	15	—	600	1.7	30	15	+200	TO-72
2N918	6	—	—	15	—	600	1.7	30	15	+200	TO-72
2N2708	—	7.5*	—	12	—	700	1.0	—	20	+200	TO-72
JAN 2N2708	—	7.5*	—	12	—	700	1.0	—	20	+200	TO-72
40295	—	7.5*	—	12	—	700	1.0	—	20	+200	TO-72
2N917	6	—	—	9	—	500	1.7	10	15	+200	TO-72
2N4259	—	—	5	—	11.5	750	0.55	—	30	+200	TO-104
2N3933	3	4	—	14●	—	750	0.55	—	30	+200	TO-104
2N3932	—	4.5	—	11.5●	—	750	0.55	—	20	+200	TO-104
2N3478	—	4.5	—	11.5●	—	750	0.7	—	15	+200	TO-104

RCA MOS TYPES	Max. Measured Noise Figure			Min. Matched Neutralized Power Gain		Max. Gate Leakage Current	Min. Forward Transcon- ductance	Max. Small-Signal Short-Circuit Reverse Transfer Capacitance	Max. Pinch-Off Voltage	Min. Drain-to- Source Breakdown Voltage	Max. Drain-to- Source Resistance	Max. Cutoff Current (Drain-to- Source)	Max. Storage Temperature	JEDEC Package
	NF			G _{pe}										
	dB			dB										
	at f = MHz			at f = MHz										
60	200	400	200	400										
TA7010 ♂	—	—	6	—	12	100	7000	0.025	—8	20	—	—	+150	TO-72
TA7045 ♂	—	4.5	—	16	—	100	6000	0.03	—8	20	—	—	+150	TO-72
TA2644 ♂	—	4.5	—	16	—	100	6000	0.03	—8	20	—	—	+150	TO-104
3N128	—	5.0	—	14.5	—	0.05	5000	0.20	—8	20	—	—	+125	TO-104
40461	—	—	—	—	—	0.01	1600	1.2	—6	25	—	—	+150	TO-72
40460 ▲	—	—	—	—	—	0.01	—	1.2	—6	—	300	5	+150	TO-72

▲ For chopper applications.



TO-72



TO-46



TO-104

actual size photographs

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